

FEATURES:

- 20 MHz ~ 3.5 GHz;
- 15 dB Gain;
- 1.2 dB Noise Figure;
- 12.0 dBm P_{1dB};
- 26.0 dBm IP₃;
- RoHS Compliant.

APPLICATIONS:

- Radar;
- Receiver;
- ECM System;
- WBA System;
- Point to Point;
- Test & Measurement;
- Wide Band PA Driver.



LNA00203500A, 20 MHz ~ 3.5 GHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

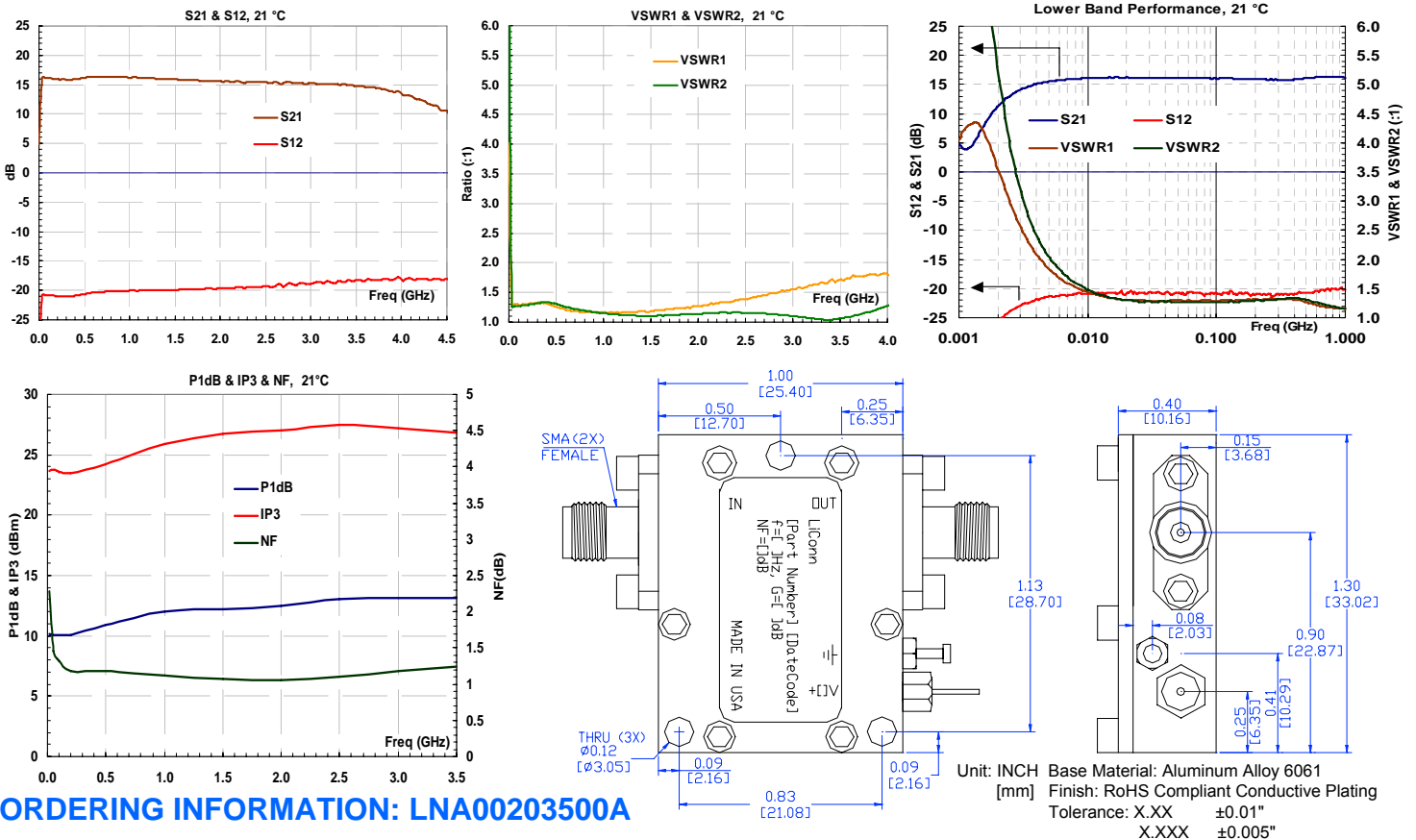
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	14	15	
ΔG	Gain Flatness	dB		±1.0	
NF	Noise Figure	dB		1.2	1.6
	100MHz ~ 3.5GHz			1.5	2.5
OIP ₃	Output 3 rd Order Intercept	dBm		26	
P _{1dB}	Output 1dB Gain Compression	dBm		12	
VSWR ₁	VSWR – Input	Ratio	1.35:1	1.8:1	
VSWR ₂	VSWR – Output	Ratio	1.35:1	1.5:1	
S ₁₂	Reverse Isolation	dB		20	
I _{dd}	Device Current (V _{dd} =+12V)	mA		25	
V _{dd}	DC Power Supply Voltage	V	+7.0	+12.0	+30.0
Z ₀	Impedance	Ohm		50	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
CW RF Input Power	dBm	+13
DC Supply Voltage	V	30
Drain Current	mA	150
Thermal Resistance	°C/W	220
Total Power Dissipation	mW	600
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

[1] Operation beyond these limits may cause permanent damage.

ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



ORDERING INFORMATION: LNA00203500A